



KTLD-100-UV-PS2300-42-VDIM-LM2

CONSTANT CURRENT LED DRIVER



Class P



RoHS Compliant

10 YEAR LIMITED WARRANTY

DESCRIPTION

LED Driver | 100W | 120-277V Input | 2000, 2100, 2200 or 2300mA Output

TOTAL POWER: 100W
INPUT VOLTAGE: 120~277Vac ± 10%
INPUT FREQUENCY: 50/60 Hz
OUTPUT CURRENT: 2000, 2100, 2200 or 2300mA
DIMMING: 0-10V
WARRANTY: 10 Year Limited



ELECTRICAL SPECIFICATIONS

Input Voltage Range	120~277Vac ± 10%
Frequency	50/60 Hz
Power Factor	> 0.9 under 120~277Vac input with 80~100% load condition (For All Output Currents)
Inrush Current	30A @ 120V
Max. Input Current	1.03A @ 120V, 0.53A @ 240V AND 0.46A @ 277V
THD	< 20% under 120~277Vac input with 80~100% load condition (For All Output Currents)
Load Regulation	± 2%
Line Regulation	± 2%
Output Tolerance	± 5% at Full Load Condition
Turn-On Delay Time	< 0.5s at Full Load Condition
Overshoot	< 10% at Full Load Condition
No Load Power Consumption	< 2W
Ripple & Noise (pk-pk)	< 10%
Withstand Voltage	Input to output, 2,800Vdc, 2mA
Surge Rating	2.5KV for Combination Wave / Ring Wave
Leakage Current	Maximum 0.5mA at 277Vac, 60Hz input
Protection	<ul style="list-style-type: none"> • Over Voltage Protection: Hiccup mode. Protection will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed. • Over Current Protection: Hiccup mode. Protection will trigger when load current exceeds specified output current and will auto recover after the fault mode is removed. • Short Circuit Protection: Hiccup mode. Protection will trigger when short circuited and will auto recover after the fault mode is removed.

PRODUCT SPECIFICATIONS

Catalog Number	Max. Output Power	Nominal Wattage	Output Current	Output Voltage	OCV	Typical Efficiency at 120V	Typical Efficiency at 240V	Typical Efficiency at 277V	Remote Mounting Distance (#18 AWG)	Class 2	
										US	Canada
KTLD-100-UV-PS2300-42-VDIM-LM2	100W	97W	2000mA	20-42V	60V	85%	87%	88%	16 ft	✓	✓
			2100mA								
			2200mA								
			2300mA								

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°C/-40°F to 60°C/140°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	5% to 95%
MTBF	255,000 hours at 40°C ambient (~70°C Case Temp)
Life Rating	85,000 hours at 120Vac input, 100% load and 60°C case temp
Maximum Case Temperature	90°/194°F
Maximum Case Temperature (tc) for 5-Year Warranty	75°C/167°F

SAFETY AND EMC COMPLIANCE

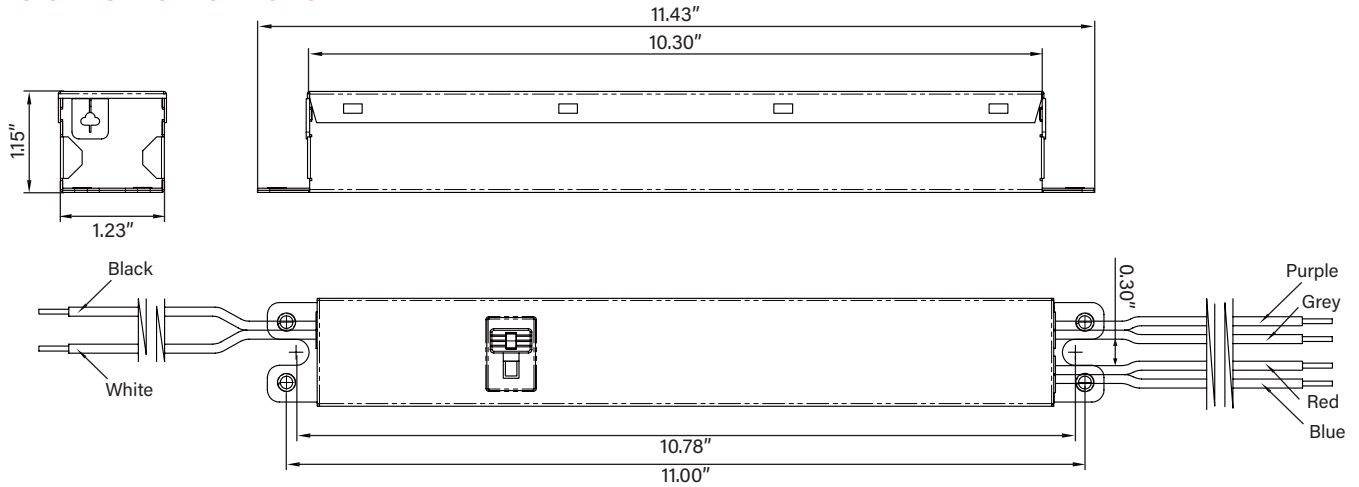
UL/cUL	UL 8750, Class P, Type HL, UL1310 Class 2
CE	EN61347-1, EN61347-2-13
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (Consumer Limit)
Sound Rating	Class A Sound Rating (per Energy Star V1.0)
EN61000-3-2	Harmonic Current Emissions Class C



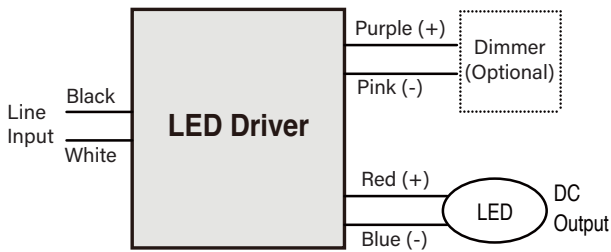
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PHYSICAL SPECIFICATIONS



WIRING DIAGRAM

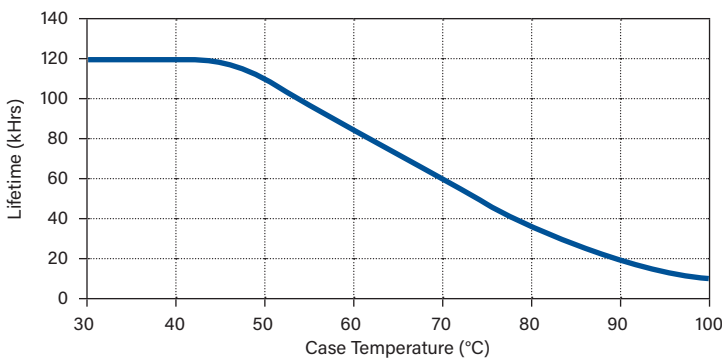


WIRING SPECIFICATIONS

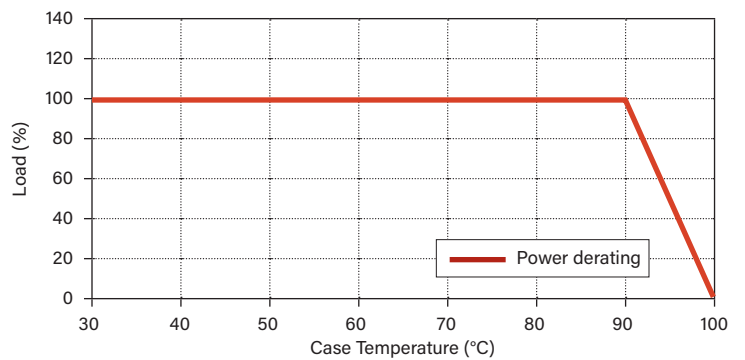
INPUT	12", UL 1316 #18AWG (Black and White)
OUTPUT	12", UL 1316 #18AWG (Red and Blue)
DIMMING	12", UL 1316/1430 #22AWG (Purple and Grey)

PERFORMANCE SPECIFICATIONS

LIFETIME VS CASE TEMPERATURE



POWER DERATING VS CASE TEMPERATURE

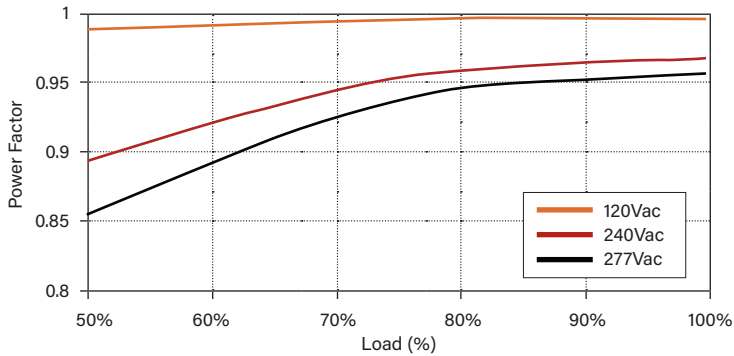




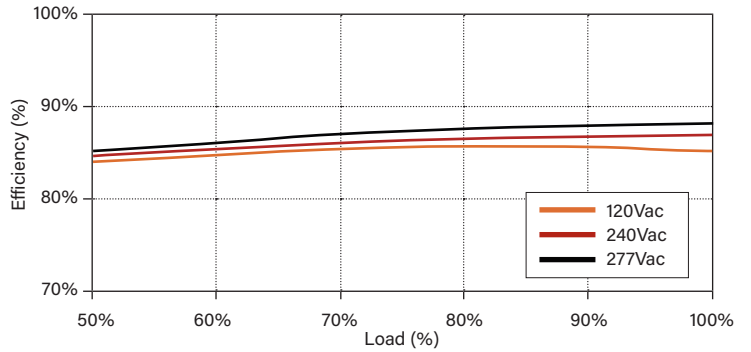
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POWER FACTOR VS LOAD



EFFICIENCY VS LOAD



ORDERING INFORMATION

CATALOG NUMBER	PACK QTY.	UPC	EASY CODE
KTLD-100-UV-PS2300-42-VDIM-LM2	32	843654134383	XFZ-81

CATALOG NUMBER BREAKDOWN

KTLD-100-UV-PS2300-42-VDIM-LM2

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

- 1** Keystone Technologies LED Driver
- 2** Max. Output Wattage
- 3** 120-277V Input
- 4** Power Select Series
- 5** Max. Output Current
- 6** Max. Output Voltage
- 7** 0-10V Dimming
- 8** Case Style